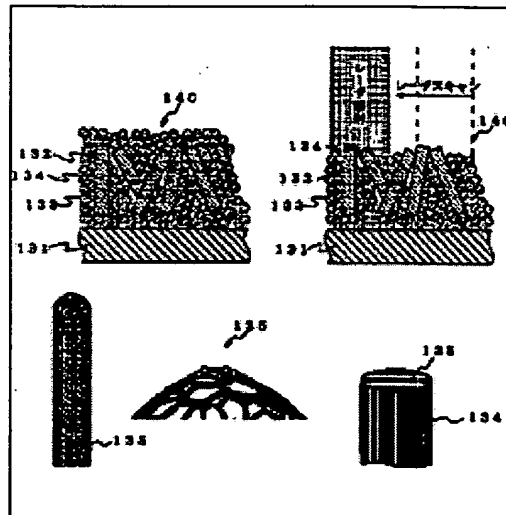


JP2000036243 A
MANUFACTURE OF ELECTRON
EMITTING SOURCE
ISE ELECTRONICS CORP

Abstract:

PROBLEM TO BE SOLVED: To increase electron emission from a tip and improve durability by forming, on a board, a pattern formed from bundle paste wherein bundles composed by collecting plural carbon nanotubes are dispersed in a viscous solution having conductivity, and irradiating a laser beam on the surface of the pattern. **SOLUTION:** A printed pattern 14 is formed on a metal plate 131 in a form in which bundles 134 are covered with silver particles 133 combined by a binder 132 wherein glass particles are melted. Then, the multiple bundles 134 are made generally uniformly present in the pattern of the printed pattern 140. In addition, a laser beam is irradiated on the surface of the printed pattern 140, and the silver particles 133 and the binder 132 on the surface are thereby selectively removed, so that the bundles 134 are exposed. Additionally, a form in which only carbon nanotubes 135 are uniformly exposed on the surfaces of the bundles 134 can be provided by removing polyhedral carbon particles other than the carbon nanotubes 135 on the surfaces of the bundles 134 by means of the laser beam irradiation, so that more electron emission can be realized.



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